Application No: 10538636   Version No: 3.0

                    Input Set:

                    Output Set:

                    Started: 2008-01-03 14:23:36.814
                   Finished: 2008-01-03 14:23:38.288
                    Elapsed: 0 hr(s) 0 min(s) 1 sec(s) 474 ms
           Total Warnings: 64
             Total Errors: 0
     No. of SeqIDs Defined: 64
        Actual SeqID Count: 64

Error code   Error Description

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W   213   Artificial or Unknown found in <213> in SEQ ID (2)

W   213   Artificial or Unknown found in <213> in SEQ ID (3)

W   213   Artificial or Unknown found in <213> in SEQ ID (4)

W   213   Artificial or Unknown found in <213> in SEQ ID (5)

W   213   Artificial or Unknown found in <213> in SEQ ID (6)

W   213   Artificial or Unknown found in <213> in SEQ ID (7)

W   213   Artificial or Unknown found in <213> in SEQ ID (8)

W   213   Artificial or Unknown found in <213> in SEQ ID (9)

W   213   Artificial or Unknown found in <213> in SEQ ID (10)

W   213   Artificial or Unknown found in <213> in SEQ ID (11)

W   213   Artificial or Unknown found in <213> in SEQ ID (12)

W   213   Artificial or Unknown found in <213> in SEQ ID (13)

W   213   Artificial or Unknown found in <213> in SEQ ID (14)

W   213   Artificial or Unknown found in <213> in SEQ ID (15)

W   213   Artificial or Unknown found in <213> in SEQ ID (16)

W   213   Artificial or Unknown found in <213> in SEQ ID (17)

W   213   Artificial or Unknown found in <213> in SEQ ID (18)

W   213   Artificial or Unknown found in <213> in SEQ ID (19)

W   213   Artificial or Unknown found in <213> in SEQ ID (20)

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        Input Set:


        Output Set:



          Started:   2008-01-03 14:23:36.814
         Finished:   2008-01-03 14:23:38.288
          Elapsed:   0 hr(s) 0 min(s) 1 sec(s) 474 ms
   Total Warnings:   64
     Total Errors:   0
No. of SeqIDs Defined:  64
 Actual SeqID Count:   64
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Error code   Error Description

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<110>   KOIZUMI, Takeshi
        NISHIYAMA, Yoko
        YAMAMOTO, Satoshi
        FUKUYAMA, Masafumi
        FURUHATA, Katsunori
        OONAKA, Kenji

<120>   PRIMER AND PROBE FOR DETECTING VIBRIO CHOLERAE OR VIBRIO MIMICUS
        AND DETECTION METHOD USING THE SAME

<130>   Q88467

<140>   10538636
<141>   2005-06-10

<150>   PCT/JP03/15889
<151>   2003-12-11

<150>   JP 2002-362878
<151>   2002-12-13

<160>   64

<170>   PatentIn version 3.3

<210>   1
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<212>   DNA
<213>   Artificial Sequence

<220>
<223>   Consensus sequence of Vibrio Cholerae and Vibrio mimicus gyrB

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caagcaccgt tgkctgtrgt rggtgakacw gagcgtaccg gtactaccgt acgtttctgg   180

ccwagygcac aracytttac caatatcgaa ttycattacg acattytggc taaacgyctg   240

cgtgagctgt cattcctgaa ytctggcgtg tcgatcaagc tgaysgatga rcgtgaagaa   300

gataaraaag accacttyat gtatgaaggk ggtattcaag cgtttgtkac ccacttgaac   360

cgyaayaaaa cgccratcca tgaraaagtm ttccacttya accaagagcg tgaagatggc   420

atcagcgtgg aagtggcrat gcagtggaay gatggtttcc aagaaaacat ctactgcttt   480

acyaacaaca tyccacagcg tgatggyggt acccayttag cyggtttccg tggtgcrttg   540

acccgtactt tgaacaacta yatggayaaa gaaggcttct cgaagaaagc scaagcrgca   600

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acctcgggtg atgatgcgcg tgaaggctta acrgcdgtkg tdtcggtgaa agtrccrgat      660

cctaaattct cragccaaac caaagataag ctrgtttctt cggargtraa atccgcrgtt      720

gartcagcya tgaatgagaa gctggcrgat ttcctrgcgg aaaacccaag cgaagcgaaa      780

aacgtttgtt cgaagattat tgatgcrgcr cghgckcgtg aagcvgcgcg taaagcmcgk      840

gaaatgacyc gycgtaaagg cgcgytrgay ythgcwggyt trcch                      885


<210>  2
<211>  822
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  Consensus sequence of Vibrio cholerae and vibrio mimicus rpoD

<400>  2
acacgtgaag gygaaatcga tattgccaag cgcattgaag atggtattaa ccaagttcaa       60

agtgcgattg ctgagtatcc tggaaccatc ccwtayattc ttgarcagtt tgaymrkgtt      120

caggcmgaag arctacgtct sactgayctg atttcwggtt tcgttgaycc taacgacatg      180

gaaaccgaag cgccaacygc kactcacatc ggttcwgarc tytctgaagc sgatctcgck      240

gatgaagatg aygmkgtcgy sgargatgaa gacgargatg aagaygaaga yggcgacggt      300

gaaagyagcg acagcgaaga agaagtsggt atygacctg arctsgctcg tgagaaattc       360

aatgaactgc gcggyaagtt ccaaaacctg caattagcgg ttaatgaatt tggtcgtgac      420

agtmaycaag cwtctgaagc ktcarrcytr gtrytggata tyttccgyga attccgycta      480

acaccaaarc aattygacca yttggttgaa actctgcgya cytcratgga tcgtgttcgy      540

acccaagarc gyttggtrat gaaagcvgtr gttgaagtcg cgaaatgcc raagaaatcr       600

ttyatygcyc trtttacagg caatgaatcg aatgargart ggctbgataa agtvctygct      660

tctgayaarc cttaygtasm raaagtmcgt gagcaagaag amgakatycg ccgytcaaty      720

caraaactdc aratgatcga rcargagacw tcactgtctg ttgarcgyat caaagacatc      780

agccgtcgta tgtcwatcgg tgargcraaa gctcgccgtg cg                        822


<210>  3
<211>  885
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  Consensus sequence Vibrio cholerae gyrB
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caagcaccgt tggctgtrgt rggtgakacw gagcgtaccg gtactaccgt acgtttctgg     180

ccwagygcac aracytttac caatatcgaa ttycattacg acattttggc taaacgcctg     240

cgtgagctgt cattcctgaa ytctggcgtg tcgatcaagc tgaycgatga acgtgaagaa     300

gataaaaaag accacttcat gtatgaaggg ggtattcaag cgtttgtgac ccacttgaac     360

cgyaayaaaa cgccratcca tgagaaagtc ttccacttta accaagagcg tgaagatggc     420

atcagcgtgg aagtggcrat gcagtggaay gatggtttcc aagaaaacat ctactgcttt     480

acyaacaaca tcccacagcg tgatggtggt acccayttag ccggtttccg tggtgcgttg     540

acccgtactt tgaacaacta yatggayaaa gaaggcttct cgaagaaagc scaagcggca     600

acctcgggtg atgatgcgcg tgaaggctta acggcwgtgg twtcggtgaa agtgccggat     660

cctaaattct cragccaaac caaagataag ctggtttctt cggaagtaaa atccgcrgtt     720

gartcagcya tgaatgagaa gctggcrgat ttcctagcgg aaaacccaag cgaagcgaaa     780

aacgtttgtt cgaagattat tgatgcrgcr cgygckcgtg aagcsgcgcg taaagcccgk     840

gaaatgactc gycgtaaagg cgcgytggat cttgcwggct taccc                     885
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<210> 4
<211> 822
<212> DNA
<213> Artificial Sequence

<220>
<223> Consensus sequence of Vibrio cholerae rpoD

<400> 4

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agtgcgattg ctgagtatcc tggaaccatc ccttatattc ttgagcagtt tgatcgtgtt     120

caggccgaag agctacgtct cactgacctg atttcaggtt tcgttgaycc taacgacatg     180

gaaaccgaag cgccaaccgc gactcacatc ggttctgagc tttctgaagc ggatctcgcg     240

gatgaagatg atgctgtcgt cgaagatgaa gacgaagatg aagacgaaga tggcgacggt     300

gaaagcagcg acagcgaaga agaagtcggt atcgaccctg aactggctcg tgagaaattc     360

aatgaactgc gcggyaagtt ccaaaacctg caattagcgg ttaatgaatt tggtcgtgac     420

agtcatcaag cttctgaagc gtcagactta gtgytggata tcttccgtga attccgycta     480
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acaccaaagc aattcgacca cttggttgaa actctgcgca cttcaatgga tcgtgttcgc      540

acccaagaac gtttggtrat gaaagcggta gttgaagtcg cgaagatgcc gaagaaatcg      600

ttcatcgccc tatttacagg caatgaatcg aatgaagagt ggctggataa agtccttgct      660

tctgacaagc cttacgtagc gaaagtccgt gagcaagaag aagagatccg ccgttcaatt      720

cagaaactac aaatgatcga gcaagagaca tcactgtctg ttgaacgcat caaagacatc      780

agccgtcgta tgtcaatcgg tgaggcraaa gctcgccgtg cg                        822
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<210> 5
<211> 885
<212> DNA
<213> Artificial Sequence

<220>
<223> Consensus sequence of Vibrio mimicus gyrB

<400> 5
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ctgctbacca tttatcgtgg tggcaagatt cacacccaaa cttaccatca cggtgtgcca      120

caagcaccgt tgtctgtrgt gggtgagact gagcgtaccg gtactaccgt acgtttctgg      180

cctagtgcac agacttttac caatatcgaa ttccattacg acattctggc taaacgyctg      240

cgtgagctgt cattcctgaa ctctggcgtg tcgatcaagc tgacggatga gcgtgaagaa      300

gataagaaag accacttyat gtatgaaggt ggtattcaag cgtttgtkac ccacttgaac      360

cgtaayaaaa cgccgatcca tgaaaaagta ttccacttca accaagagcg tgaagatggc      420

atcagcgtgg aagtggcaat gcagtggaac gatggtttcc aagaaaacat ctactgcttt      480

accaacaaca tyccacagcg tgatggcggt acccacttag cyggtttccg tggtgcrttg      540

acccgtactt tgaacaacta catggacaaa gaaggcttct cgaagaaagc scaagcrgca      600

acctcgggtg atgatgcgcg tgaaggctta acrgcrgtkg tktcggtgaa agtrccrgat      660

cctaaattct cragccaaac caaagataag ctrgtttctt cggargtgaa atccgcggtt      720

gagtcagcca tgaatgagaa gctggcggat ttcctggcgg aaaacccaag cgaagcgaaa      780

aacgtttgtt cgaagattat tgatgcrgcr cghgctcgtg aagcvgcgcg taaagcacgt      840

gaaatgacyc gtcgtaaagg cgcgctagay ytmgctggtt tgccw                      885
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<210> 6
<211> 822
<212> DNA
<213> Artificial Sequence

<220>
<223> Consensus sequence of Vibrio mimicus rpoD

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agtgcgattg ctgagtatcc tggaaccatc ccatacattc ttgaacagtt tgacaaggtt   120

caggcagaag aactacgtct gactgaгctg atttctggtt tcgttgatcc taacgacatg   180

gaaaccgaag cgccaactgc tactcacatc ggttcagarc tctctgaagc cgatctcgct   240

gatgaagatg acgaggtcgc ggaggatgaa gacgaggatg aagatgaaga cggcgacggt   300

gaaagyagcg acagcgaaga agaagtgggt attgaccctg agctcgctcg tgagaaattc   360

aatgaactgc gcggcaagtt ccaaaacctg caattagcgg ttaatgaatt tggtcgtgac   420

agtaaccaag catctgaagc ttcaagcctg gtactggata tyttccgcga attccgccta   480

acaccaaaac aatttgacca tttggttgaa actctgcgta cctcgatgga tcgtgttcgt   540

acccaagagc gyttggtgat gaaagcvgtg gttgaagtcg cgaaaatgcc aaagaaatca   600

tttattgcyc trtttacagg caatgaatcg aatgargaat ggctygataa agtrctcgct   660

tctgataarc cttatgtaca aaaagtacgt gagcaagaag acgatattcg ccgctcaatc   720

caaaaactkc agatgatcga acargagact tcactgtctg ttgagcgtat caaagacatc   780

agccgtcgta tgtctatcgg tgaagcgaaa gctcgccgtg cg   822

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<220>
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tycaywcsca aacttacca   19

<210> 8
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<220>
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<400> 8
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<210> 9
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<220>
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<400> 9
catrtagttg ttcaaagtac gg   22

<210> 10
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<220>
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<400> 10
ggatttyacy tccgaagaaa cyagc   25

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<220>
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<400> 11
ygccagcttc tcattcatr   19

<210> 12
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<220>
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<400> 12
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<210> 13
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<220>
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<400> 13
caataatctt cgaacaaacg t   21

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<400> 14
gattgctgag tatcctggaa ccatc   25

<210> 15
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gaycctaacg acatggaaac c   21

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<210> 17
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<220>
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<400> 17
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caatgaactg cgcggyaagt t   21

<210> 20
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ygargtrcgc agagtttcaa cc   22

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cgytcaacag acagtgawgt c   21

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tgagaaagtc ttccacttt   19

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gttaaagtgg aagactttc   19

<210> 29
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<210> 30
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gaagatgaag acgaagat                                              18


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cggtatcgac cctgaactg                                             19


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<220>
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<220>
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<220>
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<400> 39
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<210> 40
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<220>
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gttgaagtgg aatactttt   19

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<210> 56
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<220>
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<223> primer

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<210> 58
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<220>
<223> primer

<400> 58
gcggaarata tccagtacca g   21

<210> 59
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<220>
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<400> 59
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<210> 60
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<220>
<223> primer

<400> 60
aataaatgat ttctttggca tt   22

<210> 61
<211> 19

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<212>  DNA
<213>  Artificial Sequence

<220>
<223>  primer

<400>  61
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<210>  62
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<212>  DNA
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<220>
<223>  primer

<400>  62
gtcttcttgc tcacgtactt tttg                                       24


<210>  63
<211>  19
<212>  DNA
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